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WHAT IS CLAIMED IS:

A high efficiency heat sink comprising:
 at least one U-shaped copper tube with open ends;
 a sealed vacuum vessel, with orifices into the vessel communicating with
 the open ends of the copper tubes;

fibers which are strongly absorbent and are impregnated with a refrigerated liquid are disposed in the vessel.

- 2. The heat sink of claim 1, wherein the vessel has an upper end region and the orifices communicating with the u-shaped copper tube in the upper end region of the vessel.
- 3. The heat sink of claim 1, further comprising an externally mounted cooling fan aimed at the copper tube for blowing over the copper tube.
 - 4. The heat sink of claim 3, further comprising a supporting frame for the copper tube and the fan being supported on the frame to one side of the copper tube.
- 5. The heat sink of claim 1, wherein the vacuum vessel includes an upper half casing and a lower half casing which are secured together.
 - 6. The heat sink of claim 5, wherein the lower half casing includes a projecting level surface for communicating with an object for heat transfer.
 - 7. The heat sink of claim 6, wherein the upper half casing includes orifices for the open ends of the copper tube.

- 8. The heat sink of claim 5, further comprising a sealing ring for sealing the upper and lower casing halves together.
 - 9. The heat sink of claim 8, wherein the sealing ring is comprised of a silicone gel which seals the vessel when the upper and lower half casing are compressed together.
- 25 10. The heat sensor or claim 1, wherein the highly absorbent fiber includes an inhibited glycol as the refrigerating liquid.